

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
7 April 2005 (07.04.2005)

PCT

(10) International Publication Number
WO 2005/030463 A1

(51) International Patent Classification⁷: B29C 33/34, 47/00, B29D 23/00

(21) International Application Number:
PCT/CA2004/001475

(22) International Filing Date: 16 August 2004 (16.08.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2,444,096 1 October 2003 (01.10.2003) CA

(71) Applicants and

(72) Inventors: LUPKE, Manfred, A., A. [CA/CA]; 92 Elgin Street, Thornhill, Ontario L3T 1W6 (CA). LUPKE, Stefan, A. [CA/CA]; 32 Vintage Lane, Thornhill, Ontario L3T 1X6 (CA).

(74) Agents: JOHNSON, T., Scott et al.; Dennison Associates, Suite 301, 133 Richmond Street West, Toronto, Ontario M5H 2L7 (CA).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

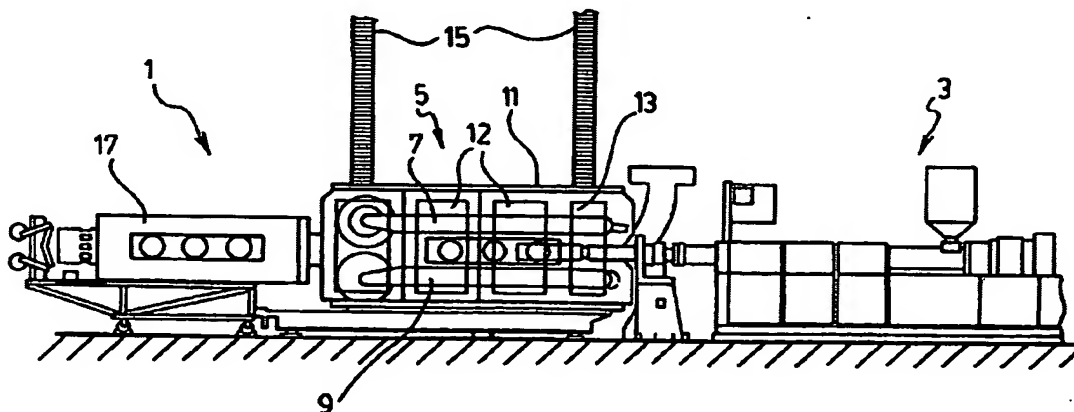
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- with amended claims

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: EXTERNALLY COOLED MOVING MOLD



BEST AVAILABLE COPY

(57) Abstract: A molding apparatus includes a moving mold for shaping molten plastic into product made within the moving mold. The moving mold is surrounded by an air block housing to define a cooling chamber exteriorly around the moving mold. At least one heat exchanger is located within the cooling chamber. The heat exchanger provides cooling air which is contained by the housing within the cooling chamber to act on and provide cooling of the moving mold.

WO 2005/030463 A1